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MAR 26 2008

Utility Patent  
Ser. No. 10/585,776CLAIM AMENDMENTS

Please amend the following claims (strikethrough for deletion and underline for insertion):

1. (Currently Amended) A joint ~~for capable of joining~~ flat rigid parts, comprising projections, which are embodied on the mating sides of the parts in the form of bulbous breadths at the ~~an~~ edge thereof and necks at the ~~basis~~ base thereof, and complementary joggles, which are embodied in the form of bulbous slots corresponding to the bulbous breadths of the projections and gradually ~~change~~ change into grooves corresponding to the projections necks, characterized in that the surfaces of the projections edges and the surfaces of the slots bottoms mating therewith are embodied in the form of cones ~~edges of the projections and surfaces of the bottoms of the slots are embodied in the form of conical surfaces~~, wherein the peaks of the conical surfaces of the projections edges and of the slots bottoms are arranged on the opposite sides with respect to the connecting parts of each part are arranged on opposite sides with respect to a plane of each respective part, wherein a lower and upper part are joined by overlapping said upper piece and said lower piece in such a way that the respective planes of said upper and lower pieces are positioned at an angle that is close to a right angle, aligning bulbous breadths of the lower piece with the bulbous slots of the upper piece, placing the necks of the upper piece into the mating grooves of the lower piece, respectively, and rotating said upper piece relative to said lower pieces until conical surfaces of the breadths meet the conical surfaces of the slots, wherein both parts are located in the same plane.
2. (Currently Amended) A joint as claimed in claim 1, characterized in that the ~~a~~ radius of curvature of the guiding lines of the conical surfaces of the projections edges and of the slots bottoms are ~~is~~ embodied in such a way that they tend to it approaches infinity.
3. (Canceled)

Utility Patent  
Ser. No. 10/585,776

4. (Currently Amended) A joint for capable of joining flat parts having a first mating side and a second mating said side, said joint comprising:

· a first series of projections formed on said first mating sides and having a bulbous breadth at the edge thereof and a neck at a basis base thereof;

· a second series of projections formed on said second mating side and having a bulbous breadth at the edge thereof and a neck at a basis base thereof;

· complementary joggles corresponding to said first bulbous breadths and said second bulbous breadths respectively respectively, such that said joggles gradually changing change into grooves corresponding to the projections necks, wherein a lower and upper part are joined by overlapping said upper piece and said lower piece in such a way that the respective planes of said upper and lower pieces are positioned at an angle that is close to a right angle, aligning bulbous breadths of the lower piece with the bulbous slots of the upper piece, placing the necks of the upper piece into the mating grooves of the lower piece, respectively, and rotating said upper piece relative to said lower pieces until conical surfaces of the breadths meet the conical surfaces of the slots, wherein both parts are located in the same plane.

5. (Original) The joint for flat parts of Claim 4, wherein said joggles are embodied in the form of bulbous slots.

6. (Currently Amended) The joint for flat parts of Claim 5, wherein the surfaces of the projections edges and the surfaces of the slots bottoms mating therewith comprise cones edges of the projections and the surfaces of the bottoms of the slots mating therewith each comprise conical surfaces having a guiding line on a conical surface that passes through a peak, and wherein said guiding lines and said peaks are arranged on the opposite sides with respect to the connecting parts.

**Utility Patent  
Ser. No. 10/585,776**

7. (Currently Amended) The joint for flat parts of Claim 6, wherin a radius of curvature R of the guiding lines of the conical surfaces is equal to the radius of curvature of the slot within the accuracy of the value of the gap between the connecting parts .
8. (Canceled)
9. (Original) The joint for flat parts of Claims 1 or 7, wherein a uniform rigid plate is formed capable of working in tension-compression and in shear, virtually in the same way as a whole plate.
10. (Currently Amended) The joint for flat parts of Claim 9, wherin an assembled construction ~~works in bending of parts bends~~ in only one direction, namely when the bending moment ~~has the same direction as the rotation of the plates during the assembly process urges~~ together the conical surfaces of the breadths to meet the conical surfaces of the slots.
11. (Currently Amended) The joint for flat parts of Claim 10, wherein disassembling of the construction of parts is performed in reverse order by applying a bending moment that drives apart the conical surfaces of the breadths to meet the conical surfaces of the slots.